

# SPECIALTY FIBER YTTERBIUM DOPED FIBER

PHOTODARKENING FREE  
Yb-DOPED DOUBLE CLAD FIBER

**Kokyo**

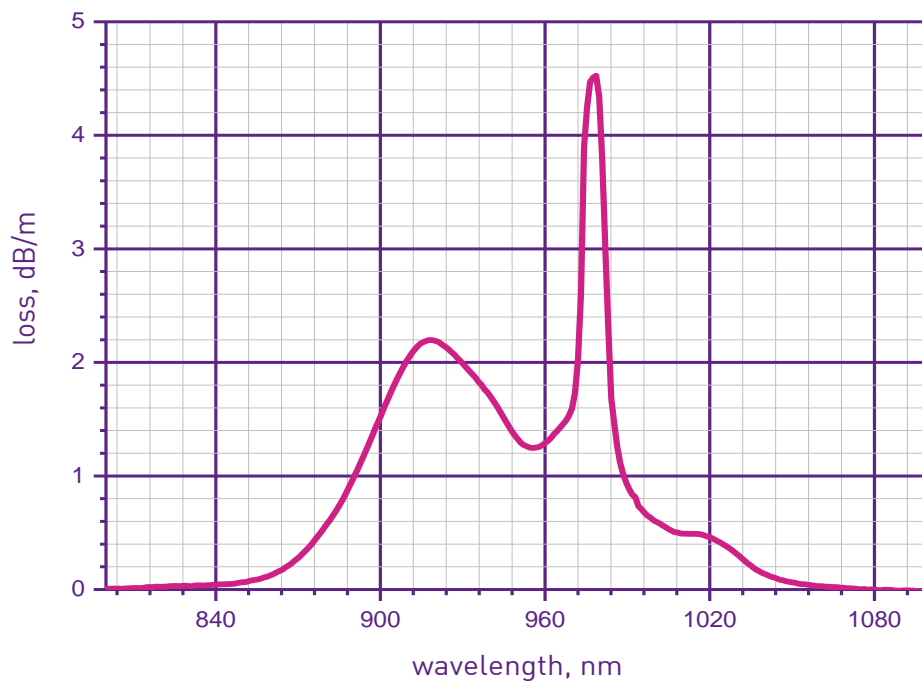
株式会社 光響

Email : [info@symphotony.com](mailto:info@symphotony.com)  
Web : <https://www.symphotony.com/>

## ARTICLE YDF-DC-10/125

Ytterbium doped fiber YDF-DC-10/125 series is designed for operation without any power degradation in a high-peak-power cladding pumped amplifiers. The highest clad absorption over the market allows usage of only 3 m of such fiber (with 976 nm pump) for efficient amplification.

Typical inner clad absorption



FIBER SPECIFICATIONS	YDF-DC-10/125
Core diameter, $\mu\text{m}$	$10.0 \pm 1$
Clad diameter, $\mu\text{m}$	$127 \pm 3$
Clad shape	PANDA or octagonal
Core NA	$0.09 \pm 0.01$
Cutoff wavelength, $\mu\text{m}$	$1.05 \pm 0.1$
Clad NA	$> 0.46$
Clad absorption (915 nm), dB/m	$> 1.8$
Clad absorption (976 nm), dB/m	$\sim 5$
Core/clad background loss (1150 nm), dB/km	$< 50$
Photodarkening resistance	$> 20$ times better compare to the $\text{Al}_2\text{O}_3$ -SiO Yb-doped fiber

Other parameters including PM version are available on the request